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Maleki, L.; Prestage, J.; Nordtvedt, K.; Armstrong, J.; Anderson, J.; Vessot, R.; Damour, T.; Soffel, M.;
Frequency Control Symposium, 1998. Proceedings of the 1998 IEEE International
27-29 May 1998 Page(s):329 - 335
Digital Object Identifier 10.1109/FREQ.1998.717924
Summary: In the strongly time dilated space-time curvature at four solar radii, time runs slower than on Earth by about one half microsecond per second. Three atomic clocks based on hyperfine transitions of Hg^+ (Z=80), Cd^+ (Z=48), and Y.....
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2. **Accumulation of random noise in a chain of slave clocks**
Garner, G.M.;
Frequency Control Symposium, 1994. 48th., Proceedings of the 1994 IEEE International
1-3 June 1994 Page(s):798 - 811
Digital Object Identifier 10.1109/FREQ.1994.398245
Summary: This paper considers random noise accumulation in a chain of clocks using a time-domain, state-space approach. In this configuration, the output phase signal of one clock is the input phase signal to the next clock. The problem is relevant to synchro.....
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3. **Simulation of pointer activity in synchronous digital hierarchy networks**
Owen, H.L.; Klett, T.;
Computers and Communications, 1993., Twelfth Annual International Phoenix Conference on
23-26 March 1993 Page(s):409 - 415
Digital Object Identifier 10.1109/PCCC.1993.344509
Summary: Pointer activity in synchronous transport module 1 (STM1) networks is presented based on simulated models of various STM1 network payload configurations. A statistical clock model is used to simulate the effects of clocking instabilities. The clock m.....
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4. **Design and simulation of a fast Josephson junction on-chip gated clock for frequency and time analysis**
Ruby, R.C.;
Magnetics, IEEE Transactions on
Volume 27, Issue 2, Part 4, Mar 1991 Page(s):2872 - 2875
Digital Object Identifier 10.1109/20.133808
Summary: As the sophistication and speed of digital communication systems increase, there is a corresponding demand for more sophisticated and faster measurement instruments. One such instrument on the market is the HP 5371A frequency and time interval analyz.....
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5. **Facing up to practical measurement of MRTIE: a new effective methodology**
Bregni, S.;
Communications, 1995. ICC 95 Seattle, Gateway to Globalization, 1995 IEEE International Conference on
Volume 2, 18-22 June 1995 Page(s):1201 - 1205 vol.2
Digital Object Identifier 10.1109/ICC.1995.524291
Summary: Maximum relative time interval error (MRTIE) is historically one of the main time domain quantities considered for the specification of clock stability requirements in telecommunications standards. In this work, after the formal definition of MRTIE, ...
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6. **Assessment of muscle fatigue during biking**
Knaflitz, M.; Molinari, F.;
Neural Systems and Rehabilitation Engineering, IEEE Transactions on [see also IEEE Trans. on Rehabilitation Engineering]
Volume 11, Issue 1, March 2003 Page(s):17 - 23
Digital Object Identifier 10.1109/TNSRE.2003.810425
Summary: The analysis of the surface myoelectric signal recorded while a muscle is performing a sustained contraction is a valuable tool for assessing the progression of localized fatigue. It is well known that the modifications of the spectral content of the.....
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7. **Determination of short-term error caused by the reference clock in precision time-interval measurement and generation**
Kalisz, J.;
Instrumentation and Measurement, IEEE Transactions on
Volume 37, Issue 2, June 1988 Page(s):315 - 316
Digital Object Identifier 10.1109/19.6074
Summary: A simple analysis based on the randomized clock cycle T_0 yields a useful formula on its variance in terms of the Allan variance. The short-term uncertainty of the measured or generated time interval t is expressed by the.....
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8. **Clock stability measure dependence on time error sampling period**
Bregni, S.; Carbonelli, M.; De Seta, D.; Perucchini, D.; Zampilloni, G.;
Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge'., IEEE
Volume 3, 28 Nov.-2 Dec. 1994 Page(s):1451 - 1455 vol.3
Digital Object Identifier 10.1109/GLOCOM.1994.513017
Summary: The introduction of SDH based networks rises new important synchronization issues to be carefully investigated. In particular, the telecommunication standard bodies are mainly considering, for the specification of clocks, five frequency stability qua.....
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9. **Standard time and frequency generation**
Kartaschoff, P.; Barnes, J.A.;
Proceedings of the IEEE
Volume 60, Issue 5, May 1972 Page(s):493 - 501
Summary: The basic properties of atomic primary frequency standards are reviewed. A continuously running frequency source combined with counting, storage, and display devices results in a clock. Time scales are obtained by setting clocks with respect to a con.....
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10. **Feasibility of determining diffusion characteristics of bioceramics using gamma scintigraphy**
Smith, J.A.; Reynolds, D.B.; Bajpai, P.K.; Sedaghat, A.;
Biomedical Engineering Conference, 1996., Proceedings of the 1996 Fifteenth Southern
29-31 March 1996 Page(s):231 - 234
Digital Object Identifier 10.1109/SBEC.1996.493157
Summary: This study investigated the feasibility of determining an apparent diffusion coefficient for diffusion of technetium-99m-labeled albumin (MICROLITE^{R}) through ZCAP (Zinc-Calcium-Phosphorous Oxide) ceramics. Gamma scintigraphy was used for n.....
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11. **Impact of slave clock internal noise on Allan variance and root mean square time interval error measurements**
Bregni, S.; Carbonelli, M.; De Seta, D.; Perucchini, D.;
Instrumentation and Measurement Technology Conference, 1994. IMTC/94. Conference Proceedings. 10th Anniversary. Advanced Technologies in I & M., 1994 IEEE
10-12 May 1994 Page(s):1411 - 1414 vol.3
Digital Object Identifier 10.1109/IMTC.1994.352160
Summary: Starting from a slave clock model, results describing the impact of clock internal noises on TIErms and ADEV are provided, based on theoretical analysis, computer simulations and experimental measurements. Comparison of the obtained results allows to.....
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12. **A CMOS time measurement system with analog memory for particle physics detectors**
Gerds, E.J.; Van der Spiegel, J.; Williams, H.H.; Van Berg, R.;
Nuclear Science Symposium and Medical Imaging Conference, 1992., Conference Record of the 1992 IEEE
25-31 Oct. 1992 Page(s):390 - 392 vol.1
Digital Object Identifier 10.1109/NSSMIC.1992.301266
Summary: A time-to-charge converter with an analog memory unit (TCC/AMU) has been designed and fabricated in HP's 1.2 μm n-well process. This VLSI chip is intended for the Superconducting Super Collider straw tube detector electronics. The TCC/AMU measures.....
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13. **GPS time interval and state measurement for PARCS**
Harris, I.; Sien Wu; Bertiger, W.;
Frequency Control Sympposium and PDA Exhibition Jointly with the 17th European Frequency and Time Forum, 2003. Proceedings of the 2003 IEEE International
4-8 May 2003 Page(s):185 - 190
Digital Object Identifier 10.1109/FREQ.2003.1275085
Summary: A science-quality space GPS receiver is being studied for the primary atomic reference clock in space (PARCS) mission. The PARCS flight experiment is an International space station (ISS) payload that will conduct investigations into the laser cooling.....
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☐ **14. CDS noise reduction of partially reset charge-detection nodes**
Hynecek, J.;
Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also Circuits and Systems I: Regular Papers, IEEE Transactions on]
Volume 49, Issue 3, March 2002 Page(s):276 - 280
Digital Object Identifier 10.1109/81.989160
Summary: The paper describes noise reduction obtained by using the correlated double sampling (CDS) technique to process signals from destructively reset charge detection nodes where the resetting process has not been fully completed. In standard cases, the c.....

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☐ **15. A CMOS ASIC time-to-digital converter for short time interval measurements**
Rahkonen, T.; Kostamovaara, J.; Saynajakangas, S.;
Circuits and Systems, 1989., IEEE International Symposium on
8-11 May 1989 Page(s):2092 - 2095 vol.3
Digital Object Identifier 10.1109/ISCAS.1989.100787
Summary: The aim of this work was to study the possibility of using CMOS ASIC technology to construct accurate time-interval-measurement devices, for which ECL (emitter-coupled-logic) technology is normally used because of its better stability. The accuracy o.....

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☐ **16. Stability analysis of SDH equipment clock**
Shi Guowei; Wang Qing; Chen Ming;
Microwave and Millimeter Wave Technology, 2000, 2nd International Conference on. ICMMT 2000
14-16 Sept. 2000 Page(s):239 - 242
Digital Object Identifier 10.1109/ICMMT.2000.895666
Summary: Based on a SDH equipment clock (SEC) model, the authors calculate the root mean square of the time interval error between the reference timing signal and SEC output signal. They investigate the SEC instability caused by the internal noises of some SE.....

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☐ **17. Clock recovery system for high density digital tape recorder**
Digeon, A.; Anglade, P.;
Magnetics, IEEE Transactions on
Volume 17, Issue 6, Nov 1981 Page(s):3335 - 3336
Summary: The Bit Error Rate (BER) is one of the most important factors determining the quality of a High Density Digital Tape Recorder (HDDR). The main factor contributing to BER is the presence of a drop-out on the tape ie specified time interval during whic.....

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☐ **18. Modification of EIT algorithms using a pipeline multiprocessor algorithm**
Kacarska, M.; Loskovska, S.;
Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean
Volume 2, 2000 Page(s):698 - 701 vol.2
Digital Object Identifier 10.1109/MELCON.2000.880029
Summary: Electrical impedance tomography (EIT) is relatively new medical imaging modality that produces images by computing electrical properties within the human body. In EIT, sinusoidal electric currents are applied to the body using electrodes attached to .....

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☐ **19. Jitter and wander performance in synchronization distribution chains**
Carbonelli, M.; de Seta, D.; Perucchini, D.;
Instrumentation and Measurement Technology Conference, 1996. IMTC-96. Conference Proceedings. 'Quality Measurements: The Indispensable Bridge between Theory and Reality'., IEEE
Volume 1, 1996 Page(s):44 - 47 vol.1
Digital Object Identifier 10.1109/IMTC.1996.507345
Summary: Clock phase noise models based on theoretical analysis and experimental evidence are presented and used to calculate the amount of jitter and wander that, due to both oscillator internal noise and medium temperature variations, accumulate at the end .....

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☐ **20. A new approach for pulse processing in PET**
Qingguo Xie; Chien-Min Kao; Hsiau, Z.; Chin-Tu Chen;
Nuclear Science Symposium Conference Record, 2003 IEEE
Volume 2, 19-25 Oct. 2003 Page(s):1201 - 1205 Vol.2
Summary: We propose a new electronic design to overcome design limitations in PET that arise from the need to use high-cost fast analog-to-digital converters (ADCs). Our design may completely remove the use of ADCs in PET, and possibly the constant fraction d.....

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☐ **21. Implementation of a parallel genetic algorithm for floorplan optimization on IBM SP2**
Han Yang Foo; Jianjian Song; Wenjun Zhuang; Esbensen, H.; Kuh, E.S.;
High Performance Computing on the Information Superhighway, 1997. HPC Asia '97
28 April-2 May 1997 Page(s):456 - 459
Digital Object Identifier 10.1109/HPC.1997.592190
Summary: A Multi-Selection-Multi-Evolution (MSME) scheme for parallelizing a genetic algorithm for floorplan optimization is presented and its implementation with MPI and its experimental results are discussed. Our experimental results on a 16 node IBM SP2 sc.....

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☐ **22. The Effects of Transmitter/Receiver Clock Time-Base Instability on Coherent Communication System Performance**
Chak Chie; Chit-Sang Tsang;
Communications, IEEE Transactions on [legacy, pre - 1988]
Volume 30, Issue 3, Mar 1982 Page(s):510 - 516
Summary: The purpose of this paper is to present a model and associated analysis of the deleterious effects which both transmitter and receiver data clock time-base instability have on bit-error probability. The types of time-base instability modeled and anal.....

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☐ **23. Zero-crossing demodulation for open loop fiber optic gyroscopes**
Rodriguez, R.B.G.; Ferreira, E.C.;
Microwave and Optoelectronics Conference, 2001. IMOC 2001.Proceedings of the 2001 SBMO/IEEE MTT-S International
Volume 1, 6-10 Aug. 2001 Page(s):149 - 152 vol.1
Digital Object Identifier 10.1109/SBMOMO.2001.1008739
Summary: This paper describes a new low-cost signal processing scheme for open-loop fiber optic gyroscopes using zero-crossing demodulation. This digital demodulation method detects the Sagnac phase difference, proportional to the rotation rate of the system,.....

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☐ **24. A model for circuit unavailability**
Jeske, D.R.;
Global Telecommunications Conference, 1992. Conference Record., GLOBECOM '92. Communication for Global Users., IEEE
6-9 Dec. 1992 Page(s):1657 - 1661 vol.3
Digital Object Identifier 10.1109/GLOCOM.1992.276667
Summary: A model for the distributions of total unavailability during a given time interval and the number of unavailability events during a given time interval for a circuit is derived. The model can be used to determine the probability that circuit unavaila.....

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☐ **25. Voltage and current sensing in power electronic converters using sigma-delta A/D conversion**
Mertens, A.; Eckardt, D.;
Industry Applications, IEEE Transactions on
Volume 34, Issue 5, Sept.-Oct. 1998 Page(s):1139 - 1146
Digital Object Identifier 10.1109/28.720455
Summary: This paper presents a novel approach to voltage and current measurement in power electronics using a sigma-delta A/D converter. The system converts the analog input signal into a clocked stream of low-resolution digital data. By averaging this stream.....

AbstractPlus | References | Full Text: PDF(256 KB) **IEEE JNL**
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☐ **26. The research on SDH network synchronization**
Guowei Shi; Qing Wang; Ming Chen;
Circuits and Systems, 2000. IEEE APCCAS 2000. The 2000 IEEE Asia-Pacific Conference on
4-6 Dec. 2000 Page(s):841 - 844
Digital Object Identifier 10.1109/APCCAS.2000.913652
Summary: In this paper the synchronization structure of an SDH synchronization network (SSN) is discussed. The impact of clock instabilities on SDH performance is analyzed and theoretical calculation of the root mean square of the time interval error (TIE) at.....

AbstractPlus | Full Text: PDF(228 KB) **IEEE CNF**
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27. Time-Interval Measurement Based on SAW Filter Excitation
PánekPanek, P.P.;
Instrumentation and Measurement, IEEE Transactions on : Accepted for future publication
Volume PP, Forthcoming, 2003 Page(s):1 - 1
Digital Object Identifier 10.1109/TIM.2008.925014
Summary: This paper deals with a novel time-interval measurement method that makes use of a surface acoustic wave (SAW) filter as a time interpolator. The method is based on the fact that a transversal SAW filter excited by a short pulse can generate a well-d.....

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☐ **28. Automated Timekeeping II**
Putkovich, Kenneth;
Instrumentation and Measurement, IEEE Transactions on
Volume 32, Issue 1, March 1983 Page(s):214 - 217
Digital Object Identifier 10.1109/TIM.1983.4315044
Summary: An automated system presently used by the U. S. Naval Observatory (USNO) for determining, maintaining, and disseminating Precise Time and Time Interval (PTTI) to a worldwide community of scientific and military users is described and evaluated on the.....

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29. **Spatial TDMA and CSMA with preamble sampling for low power ad hoc wireless sensor networks**
El-Hoiydi, A.;
Computers and Communications, 2002. Proceedings. ISCC 2002. Seventh International Symposium on
1-4 July 2002 Page(s):685 - 692
Digital Object Identifier 10.1109/ISCC.2002.1021748
Summary: Wireless sensor networks are a class of wireless ad hoc networks for which low power consumption is a major requirement. This paper presents an analysis of the performances of low power multiple access protocols designed for a network of wireless sen.....
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30. **Knowledge-based interpretation of toxoplasmosis serology test results including fuzzy temporal concepts**
Kopecky, D.; Rappelsberger, A.; Hayde, M.; Prusa, A.-R.; Adlassnig, K.P.;
IFSA World Congress and 20th NAFIPS International Conference, 2001. Joint 9th
25-28 July 2001 Page(s):2758 - 2762 vol.5
Digital Object Identifier 10.1109/NAFIPS.2001.943661
Summary: Transplacental transmission of Toxoplasma gondii from an infected pregnant woman to the unborn occurs with a probability of about 60 percent and results in fetal damage to a degree depending on the gestational age. The computer system ToxoNet process.....
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31. **Direct approach to MTIE calculation**
Dobrogowski, A.; Kasznia, M.;
Frequency and Time Forum, 1999 and the IEEE International Frequency Control Symposium, 1999., Proceedings of the 1999 Joint Meeting of the European
Volume 2, 13-16 April 1999 Page(s):1121 - 1124 vol.2
Digital Object Identifier 10.1109/FREQ.1999.841521
Summary: In the paper the application of time effective algorithms for the maximum time interval error (MTIE) calculation is considered. In the first section the authors introduce the problem of time effective MTIE calculation. In the next section the methods.....
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32. **Multimedia segment delivery scheme and its performance for real-time synchronization control**
Li, L.; Karmouch, A.; Georganas, N.D.;
Communications, 1994. ICC 94, SUPERCOMM/ICC '94, Conference Record, Serving Humanity Through Communications. IEEE International Conference on
1-5 May 1994 Page(s):1734 - 1738 vol.3
Digital Object Identifier 10.1109/ICC.1994.368737
Summary: We present a multimedia segment delivery scheme (SDS) for the simultaneous delivery of multimedia data in different data streams belonging to the same time interval. SDS employs the synchronization quality of service parameters to guarantee the simul.....
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